Available online at www.sciencedirect.com
ScienceDirect
Aquaculture
ELSEVIER
Aquaculture 268 (2007) 293–294
www.elsevier.com/locate/aqua-online

Contents of *Aquaculture*, Volume 268

VOL. 268 NOS. 1–4 **22 August 2007**

Special Issue: Larvi 2005: Proceedings of the 4th Fish and Shellfish Larviculture Symposium, Gent, Belgium, September 2005

Guest Editors: P. Bossier, S.J. Kaushik and P. Sorgeloos

Preface
P. Bossier, P. Sorgeloos and S. Kaushik 1

Research Papers
Broodstock condition, egg morphology and lipid content and composition during the spawning season of captive striped trumpeter, *Latris lineata*
M.P. Bransden (Hobart, Cambridge, Tasmania, Australia), S.C. Battaglene, R.M. Goldsmid, G.A. Dunstan and P.D. Nichols (Hobart, Tasmania, Australia) 2
Effect of photoperiod manipulation on rainbow trout (*Oncorhynchus mykiss*) egg quality: A genomic study
E. Bonnet, J. Montfort (Rennes, France), D. Esquerre, K. Hugot (Jouy en Josas, France), A. Fostier and J. Bobe (Rennes, France) 13
Progress on the genetics of reproductive performance in penaeid shrimp
A.M. Ibarra, I.S. Racotta, F.G. Arcos and E. Palacios (La Paz, Mexico) 23
Development of rotifer strains with useful traits for rearing fish larvae
A. Hagiwara, K. Suga, A. Akazawa, T. Kotani and Y. Sakakura (Nagasaki, Japan) 44
The onset of exogenous feeding in marine fish larvae
M. Yúfera and M.J. Darias (Cádiz, Spain) 53
Nutritional physiology during development of Senegalese sole (*Solea senegalensis*)
L.E.C. Conceição, L. Ribeiro, S. Engrola, C. Aragão, S. Morais, M. Lacuisse, F. Soares and M.T. Dinis (Faro, Portugal) 64
Digestive physiology of marine fish larvae: Hormonal control and processing capacity for proteins, peptides and amino acids
I. Rønnestad, Y. Kamisaka (Bergen, Norway), L.E.C. Conceição, S. Morais (Faro, Portugal) and S.K. Tonheim (Bergen, Norway) . . . 82
Dietary modulation of some digestive enzymes and Metabolic processes in developing marine fish: Applications to diet formulation
J.L. Zambonino Infante and C.L. Cahu (Plouzané, France) 98
Dietary neutral lipid level and source in marine fish larvae: Effects on digestive physiology and food intake
S. Morais, L.E.C. Conceição (Faro, Portugal), I. Rønnestad (Bergen, Norway), W. Koven (Eilat, Israel), C. Cahu, J.L. Zambonino Infante (Plouzané, France) and M.T. Dinis (Faro, Portugal) 106
Salinity stress test and its relation to future performance and different physiological responses in shrimp postlarvae
E. Palacios and I.S. Racotta (La Paz, Mexico) 123
The effect of dietary indispensable amino acid imbalances on feed intake: Is there a sensing of deficiency and neural signaling present in fish?
K. Dabrowski (Columbus, OH, USA), M. Arslan (Columbus, OH, USA; Erzurum, Turkey), B.F. Terjesen (Columbus, OH, USA; Sunndalsøra, Norway) and Y. Zhang (Columbus, OH, USA) 136
Complex microparticles for delivery of low-molecular weight, water-soluble nutrients and pharmaceuticals to marine fish larvae
C. Langdon, B. Clack (Newport, OR, USA) and U. Önal (Cannakkale, Turkey) 143
How initial predator–prey ratio affects intra-cohort cannibalism and growth in Eurasian perch *Perca fluviatilis* L larvae and juveniles under controlled conditions
S.N.M. Mandiki (Namur, Belgium), I. Babiak (Namur, Belgium; Bodø, Norway), J. Krol (Namur, Belgium; Olsztyn, Poland), J.F.R. Rasolo and P. Kestemont (Namur, Belgium) 149

Deformities in larval gilthead sea bream (*Sparus aurata*): A qualitative and quantitative analysis using geometric morphometrics
Y. Verhaegen, D. Adriaens (Gent, Belgium), T. De Wolf (Rosignano Solvay, Italy), P. Dhert (Baasrode, Belgium) and P. Sorgeloos (Gent, Belgium) 156
Quality of hatchery-reared juveniles for marine fisheries stock enhancement
L. Le Vay (Wales, UK), G.R. Carvalho (Bangor, UK), E.T. Quinitio, J.H. Lebata (Iloilo, Philippines), V.N. Ut (Can Tho, Vietnam) and H. Fushimi (Hiroshima, Japan) 169
A review of the larviculture of cobia *Rachycentron canadum*, a warm water marine fish
G. Joan Holt, C.K. Faulk (TX, USA) and M.H. Schwarz (Hampton, VA, USA) 181
Cod juvenile production: Research and commercial developments
G. Rosenlund (Stavanger, Norway) and Ó. Halldórsson (Rong, Norway) 188
Advances in the culture of striped trumpeter larvae: A review
S.C. Battaglene and J.M. Cobcroft (Hobart, Tasmania, Australia) 195
Flow field control for larviculture of the seven-band grouper *Epinephelus septemfasciatus*
Y. Sakakura (Nagasaki, Japan), S. Shiotani (Kobe, Japan), H. Chuda and A. Hagiwara (Nagasaki, Japan) 209
Estimating larval density in cod (*Gadus morhua*) first feeding tanks using measurements of feed density and larval growth rates
M.O. Alver, J.A. Alfredsen and G. Øie (Trondheim, Norway) 216
Genetically based resistance to summer mortality in the Pacific oyster (*Crassostrea gigas*) and its relationship with physiological, immunological characteristics and infection processes
J.F. Samain (Plouzané, France), L. Dégremont, P. Soletchnik (La Tremblade, France), J. Haure (Bouin, France), E. Bédier (La Trinité, France), M. Ropert (Port en Bessin, France), J. Moal, A. Huvet, H. Bacca (Plouzané, France), A. Van Wormhoudt (Concarneau, France), M. Delaporte (Plouzané, France), K. Costil (Caen Cedex, France), S. Pouvreau, C. Lambert (Plouzané, France), V. Boulo (Montpellier cedex, France), P. Soudant, J.L. Nicolas (Plouzané, France), F. Le Roux, T. Renault, B. Gagnaire (La Tremblade, France), F. Geret (Nantes cedex, France), I. Boutet (Plouzané, France), T. Burgeot (Nantes cedex, France) and P. Boudry (La Tremblade, France) 227
Maternal transfer of immunity and ontogeny of autologous immunocompetence of fish: A minireview
I. Mulero, A. García-Ayala, J. Meseguer and V. Mulero (Murcia, Spain) 244
Bacterial translocation and pathogenesis in the digestive tract of larvae and fry
E. Ringø (Tromsø, Matredal, Norway), R. Myklebust (Norway), T.M. Mayhew (UK) and R.E. Olsen (Matredal, Norway) 251
An oral nervous necrosis virus vaccine that induces protective immunity in larvae of grouper (*Epinephelus coioides*)
C.-C. Lin, J.H.-Y. Lin, M.-S. Chen and H.-L. Yang (Tainan, Taiwan) 265
Microbiological aspects of phyllosoma rearing of the ornate rock lobster *Panulirus ornatus*
D. Bourne, L. Høj, N. Webster, M. Payne (Townsville, Queensland, Australia), M. Skindersøe, M. Givskov (Denmark) and M. Hall (Townsville, Queensland, Australia) 274
Biocontrol of pathogens in shrimp hatcheries using bacteriophages
I. Karunasagar, M.M. Shivu, S.K. Girisha (Mangalore, India), G. Krohne (Wuerzburg, Germany) and I. Karunasagar (Mangalore, India) 288

Contents of *Aquaculture*, Volume 268 293